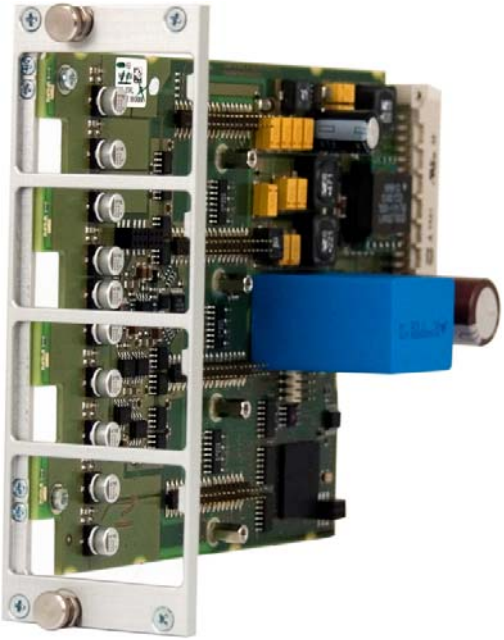
Base Module MSR 211



The base module serves as the interface for the insertable modules; it is addressed over the LVDS bus. In the base module, galvanic isolation is implemented for the analog modules.

The galvanically isolated area consists of a ± 5 V analog interface (AI + 8B insertable module); the digital interface for AO module. The interface for the FC + NC module is located in the non-galvanically isolated area.

There is no galvanic isolation between the analog channels of a base (the 8B module is an exception, which cannot implement galvanic isolation per channel itself).

The base module has space for a maximum of 4 insertable modules The ±5 V analog input signals are converted with the 18-bit converter in the base module.

For the exact specifications, see the description for the respective insert card.

The base module provides a short-circuit proof, galvanically isolated 24 V supply voltage for the AI, AO and 8B modules. This voltage can be shut off and has a 100 mA load capacity per channel.

Technical Data

Miscellaneous

Article number	18-001-211
Hardware version	1.x

Environmental conditions

Storage temperature	-30 – +85 °C	
Operating temperature	0 – +60 °C	
Humidity	0 - 95 %, uncondensed	
EMV stability	According to EN 61000-6-2:2001 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s²
Protection Type	EN 60529	IP 00

Mounting Instructions for Insertable Modules.

1. Insert the module into the terminal of the base module. Ensure that the module is seated correctly.

2. Secure the module using a M2, 5x4 rounded head screw.

3. After all the modules have been mounted, slide the aperture located under the front plate from right and secure it using 4 M2, 5x6 countersunk bolts.

CAUTION:

To ensure the accuracy of the card over a long period of time, annual calibration is necessary to compensate for component aging.
This can be in the form of a factory setting or calibration.

If the aging of the card does not have a significant influence on the application, the annual calibration does not have to be performed. The specified accuracy is however no longer guaranteed by Sigmatek

A 10-minute warm-up phase is also to be expected!

Mechanical Dimensions